United States Patent and Trademark Office

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

11/25/2002

Perkins Coie LLP 1201 3RD Avenue Suite 4800 Seattle, WA 98101

| EXAMINER NGUYEN, DUNG V | | | | |
|-------------------------|------------|--|--|--|
| | | | | |
| 3723 | 451-028000 | | | |

DATE MAILED: 11/25/2002

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/651,779 | 08/30/2000 | Scott E Moore | 108298515US | 2448 |

TITLE OF INVENTION: METHODS AND APPARATUS FOR REMOVING CONDUCTIVE MATERIAL FROM A MICROELECTRONIC SUBSTRATE

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1280 | \$0 | \$1280 | 02/25/2003 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

| appropriate. All further cor indicated unless corrected maintenance fee notification | below or directed otherwi | ne Patent, advance orders ise in Block 1, by (a) sp | and notification ecifying a new co | of maintenance f rrespondence add | ees will be mailed to the curren dress; and/or (b) indicating a sep | t correspondence address as arate "FEE ADDRESS" for |
|---|---|---|---|---|--|---|
| CURRENT CORRESPONDENCE | TE ADDRESS (Note: Legibly mark 590 11/25/2002 | | Block 1) | Fee(s) Transm accompanying | ate of mailing can only be used fittal. This certificate cannot papers. Each additional paper, must have its own certificate of | be used for any other such as an assignment or |
| 1201 3RD Avenue Suite 4800 Seattle, WA 98101 | | | | I hereby certify United States Poenvelope address transmitted to the | Certificate of Mailing or Tran that this Fee(s) Transmittal is sostal Service with sufficient posts sed to the Box Issue Fee addres the USPTO, on the date indicated by | being deposited with the age for first class mail in an s above, or being facsimile |
| | | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | FIRS | ST NAMED INVEN | FOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 09/651,779 TITLE OF INVENTION: M | 08/30/2000 IETHODS AND APPARA | ATUS FOR REMOVING | Scott E Moore CONDUCTIVE | MATERIAL FRO | 108298515US M A MICROELECTRONIC SU | 2448 BSTRATE |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLI | CATION FEE | TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | NO | \$1280 | | \$0 | \$1280 | 02/25/2003 |
| EXAMI | NER | ART UNIT | CLASS-SUBCL | ASS | | |
| NGUYEN, I | DUNG V | 3723 | 451-02800 | | | |
| Address form PTO/SB/1: O "Fee Address" indicati PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless a | ence address (or Change of 22) attached. on (or "Fee Address" Indior more recent) attached. It is a signee is identified by to the USPTO or is being the content of the USPTO or cate enclosed: | of Correspondence cation form Use of a Customer D BE PRINTED ON THE elow, no assignee data w submitted under separate (B) RE egories (will not be printer 4b. Pay A ch Pay The | the names of up or agents OR, single firm (ha attorney or age registered paten is listed, no nam PATENT (print o ill appear on the part of the patent) d on the patent) yment of Fee(s): neck in the amountment by credit care. | atent. Inclusion on this form is North and STATE OR individual of the fee(s) is er. Form PTO-203: tereby authorized | patent attorneys the name of a per a registered nes of up to 2 ents. If no name and assignee data is only appropriately appropr | group entity government |
| Commissioner for Patents is | requested to apply the Iss | | | | ously paid issue fee to the applica | |
| NOTE; The Issue Fee and other than the applicant; interest as shown by the return obtain or retain a benefit application. Confidentiality estimated to take 12 minul completed application for case. Any comments on suggestions for reducing the Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents, Under the Paperwork Recollection of information u | a registered attorney or cords of the United States ition is required by 37 CI by the public which is to y is governed by 35 U.S.C tes to complete, including the amount of time you his burden, should be serice, U.S. Department of COMPLETED FORM: Washington, DC 20231. | agent; or the assignee of Patent and Trademark O FR 1.311. The informatic of file (and by the USPTC 1.122 and 37 CFR 1.14. The gathering, preparing, an will vary depending upour require to complete the total to the Chief Informatic Commerce, Washington, S TO THIS ADDRES of persons are required to Patent to the Chief Informatic Commerce, Washington, S TO THIS ADDRES | or other party in ffice. The first required to to process) and this collection is disubmitting the name of the first form and/or on Officer, U.S. D.C. 20231. DO SS. SEND TO: | | | |



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-------------------------------|----------------------------------|----------------------|-----------------------|------------------|--|
| 09/651,779 | 551,779 08/30/2000 Scott E Moore | | 108298515US | 2448 | |
| 7590 11/25/2002 | | | EXAMINER | | |
| Perkins Coie LLP | | | NGUYEN, DUNG V | | |
| 1201 3RD Avenue Suite 4800 | | | ART UNIT | PAPER NUMBER | |
| Seattle, WA 98101 | | | 3723 | | |
| | | DA | TE MAILED: 11/25/2002 | • | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 35 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 35 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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| 09/651,779 | 08/30/2000 | Scott E Moore | 108298515US | 2448 |
| 759 | 90 11/25/2002 | | EXAMIN | ER |
| Perkins Coie LLP | .• | | NGUYEN, D | UNG V |
| 1201 3RD Avenue Suite 4800 | | | ART UNIT | PAPER NUMBER |
| Seattle, WA 98101 | | | 3723 | |
| UNITED STATES | | | DATE MAILED: 11/25/2002 | |

Notice of Possible Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there may be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking. 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of any fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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|--|--|---|--------------------|
| | Application No. | Applicant(s) | |
| Nation of Allowahility | 09/651,779 | SCOTT E. MOORE | |
| Notice of Allowability | Examiner | Art Unit | |
| | Dung V Nguyen | 3723 | |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to Amendment filed on 1 | OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308. | lication. If not included will be mailed in due co | ourse. THIS |
| 2. X The allowed claim(s) is/are 3,6-9,22,24,25,32,37,38,43-48, | | | |
| 3. ☐ The drawings filed on 30 August 2000 are accepted by the 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: | Examiner. | | |
| 1. Certified copies of the priority documents have | been received. | | |
| 2. Certified copies of the priority documents have | been received in Application No | · | |
| Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | uments have been received in this r | national stage applicatio | on from the |
| Acknowledgment is made of a claim for domestic priority un | der 35 U.S.C. & 119(e) (to a provisio | onal application) | |
| (a) The translation of the foreign language provisional a | | mai application). | |
| 6. Acknowledgment is made of a claim for domestic priority un | - | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to the subministration of the subministration of the subministration (PTO-152) which gives reasonable to the subministration (PTO-152) which gives reasonable to the subministration (PTO-152) which gives reasonable to the subministration of the submini | his application. THIS THREE-MON itted. Note the attached EXAMINER' | TH PERIOD IS NOT E | XTENDABLE |
| 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No | | · | |
| (b) including changes required by the proposed drawing c | | | |
| (c) ☐ including changes required by the attached Examiner's | Amendment / Comment or in the C | ffice action of Paper No | D |
| Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper | 84(c)) should be written on the drawin with a transmittal letter addressed to t | gs in the top margin (no he Official Draftsperson | t the back) |
| 9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR THE | it of BIOLOGICAL MATERIAL m HE DEPOSIT OF BIOLOGICAL MAT | iust be submitted. No ERIAL. | te the |
| Attachment(s) | | | |
| Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No | 4∏ Interview Summa 6⊠ Examiner's Amen | I Patent Application (PT iry (PTO-413), Paper N idment/Comment ment of Reasons for All ye Nguyan ry Examiner | o [*] . |

Application/Control Number: 09/651,779

Art Unit: 3723

DETAILED ACTION

Election/Restrictions

1. This application is in condition for allowance except for the presence of claims 4, 10-12, 15, 19-21, 27, 28, 33-36, 51, 54, 57-60, 64, 65 and 70-73 to species non-elected without traverse. Accordingly, claims 4, 10-12, 15, 19-21, 27, 28, 33-36, 51, 54, 57-60, 64, 65 and 70-73 have been cancelled.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. The application has been amended as follows:

 Cancel claims 4, 10-12, 15, 19-21, 27, 28, 33-36, 51, 54, 57-60, 64, 65 and 70-73.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: prior art of record fails to disclose or imply a method for removing an electrically conductive material from a microelectronic substrate comprising positioning first and second electrodes proximate to the microelectronic substrate and the second electrode spaced apart from the first electrode, varying current through the first and second electrodes while the first and second electrodes are spaced apart from the conductive material of the microelectronic substrate or an apparatus for removing an electrically conductive

Application/Control Number: 09/651,779

Art Unit: 3723

material from a microelectronic substrate comprising first and second electrodes spaced apart from the microelectronic substrate and a support member supporting the microelectronic substrate, a dielectric layer proximate the first electrode and being positioned between the microelectronic substrate, as specifically recited by applicant's respective claims.

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung V Nguyen whose telephone number is 703-305-0036. The examiner can normally be reached on M-F, 6:30-3:00.
- 7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J Hail can be reached on 703-308-2687. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.
- 8. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Primary Examiner

Page 3

DVN

November 25, 2002

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